

## IN THE CLAIMS

Kindly cancel claims 6, 7, 41 and 62 without prejudice to further prosecution in a divisional application.

Please amend claims 1, 3, 13, 22, 25, 40, 43, 44, 47, 49, 56 and 58 as follows:

*Sub B'*  
A2  
1(once amended). A process for the manufacture of mouldings[, especially optical lenses, specifically contact lenses, from a material that is crosslinkable by the impingement of suitable energy in a mould that is at least partially permeable to the energy causing the crosslinking and that has a mould cavity that determines the shape of the moulding to be produced, the material being introduced into the mould in a state that is still at least partially uncrosslinked, and being crosslinked in that mould, to a degree sufficient for it to be possible for the moulding to be released from the mould, by impingement of the energy causing the crosslinking, wherein impingement upon the material of the energy causing the crosslinking is restricted to the region of the mould cavity, so that essentially only the material disposed in the mould cavity is crosslinked] that are crosslinked in a mould at least to a degree sufficient to be released from the mold, in which process a crosslinkable material that is in a state in which it is at least partially uncrosslinked is introduced into the mould, the mould having a cavity determining the shape of the moulding to be produced and being at least partially <sup>permeable</sup> impermeable to an energy suitable to cause the crosslinking by impingement of the energy upon the at least partially uncrosslinked material, wherein the impingement of the energy causing the crosslinking upon the at least partially uncrosslinked material is restricted to the cavity and wherein the edge contour of the moulding is determined substantially by the spatial restriction of the energy impingement, so that a moulding is produced free from burrs or flashes.

*Sub C'*  
A3  
3(once amended). A process according to claim 1, wherein the energy employed to cause the crosslinking is radiation energy[, especially UV radiation, gamma radiation, electron radiation, or thermal radiation].

*A4*  
13(once amended). A process according to claim 1, wherein the filling of the mould cavity is carried out with the mold at least partially immersed in the starting material that is at least partially still in the uncrosslinked state.

Sub A5  
22(once amended). A process according to claim 16 [and claim 21], wherein the crosslinked moulding can be released from the mould by flushing out the mould with starting material, and  
wherein the moulding is separated from the mould by the flow of starting material as the mould is opened and is flushed out of the mould by the flow of starting material as the mould is closed.

A6  
25(once amended). A process according to claim 16 [and claim 24], wherein the crosslinked moulding is removed from the mould by means of a gripping device, and  
wherein the moulding removed from the mould by the gripping device is deposited on the displaceable mould member outside the space between the displaceable mould member and the opposite-lying wall.

Sub B2  
A7  
40(once amended). A device for the manufacture of mouldings, [especially optical lenses, specifically contact lenses, having a closable and openable mould that has a mould cavity determining the shape of the moulding to be produced, which mould is intended to receive a crosslinkable material and is at least partially permeable to an energy that causes the crosslinking of the material and is supplied from the outside, and having a source for the energy causing the crosslinking and also means for the impingement upon the mould of the energy causing the crosslinking, wherein means are provided for restricting to the region of the mould cavity the impingement upon the mould of the energy causing the crosslinking.] comprising:

a closable and openable mould defining a mould cavity which is capable of determining the shape of a moulding to be produced therein, wherein the mould is at least partially permeable to an energy suitable to cause crosslinking of a crosslinkable material to be introduced into the mould;

a source of energy suitable to cause crosslinking;

means for causing impingement of the energy upon the mould, wherein the means for causing the impingement of the energy upon the mould is arranged such that the energy is restricted to the mould cavity and that the edge contour of the moulding is determined substantially by the spatial restriction of the energy impingement, so that a moulding is produced free from burrs or flashes.

Sub A8  
43(once amended). A device according to claim 42, wherein the source generates UV radiation and wherein at least one of the halves of the mould consists of UV-permeable material[,especially quartz].

Q8 44(once amended). A device of claim 43, wherein the mask consists of a layer of material that is impermeable to UV radiation[, especially a metal oxide layer, specifically a chrome layer].

Q9 47(once amended). A device according to claim 40, wherein during filling of the mould cavity [the cavity is arranged] the mold is at least partially immersed in starting material that is at least partially still in the uncrosslinked state.

Q10 49(once amended). A device according to claim 47, which comprises means for closing the mould [arranged] while the mould is at least partially immersed in the starting material.

Q11 56(once amended). A device according to claim 50 [and claim 55], wherein means are provided for producing a flow that separates the moulding from the mould when the mould is opened and flushes the moulding out of the mould when the mould is closed, and

wherein, in a first cycle, starting material first of all flows in through the inlet and between the container wall and the displaceable mould member and then flows back out through the outlet, the source for the energy then acts upon the mould with an amount of energy necessary for it to be possible for the moulding to be released from the mould, and then, in a second cycle, starting material flows in through the inlet and between the container wall and the displaceable mould member[, separates the moulding from the mould and then flushes it out through the outlet.

Q12 58(once amended). A device according to claim 50 [and claim 57], wherein a gripping device is provided which removes the crosslinked moulding from the mould, and

wherein the container comprises, on a container wall other than the shape-giving face, a hollow or recess that extends substantially in the direction of movement of the displaceable mould member, the gripping device being arranged in that hollow or recess, and wherein the displaceable mould member comprises, on an outer wall that does not lie opposite the shape-giving container wall, an indentation in which the gripping device deposits the removed moulding.

[Kindly add the following new claims 63-81:]

Q13 -- 63. A process of claim 1, wherein said molding is an optical lens. --

- 64. A process of claim 1, wherein said molding is a contact lens. --
- 65. A process of claim 3, wherein the radiation energy is UV radiation. --
- 66. A process of claim 3, wherein the radiation energy is gamma radiation. --
- 67. A process of claim 3, wherein the radiation energy is electron radiation. --
- 68. A process of claim 3, wherein the radiation energy is thermal radiation. --
- 69. A process of claim 4, wherein the masking is effected by a mask that is impermeable or of poor permeability to the crosslinking energy and wherein the mask is provided on or in the mould but outside the mould cavity. --
- 70. A process of claim 69, wherein the mould comprises different mould members and the mask is arranged in the region of separating planes or separating faces of different mould members. --
- 71. A process of claim 70, wherein the mask is provided on the separating face of one of the mould members. --
- 72. A process of claim 70, wherein the mask is arranged such that it is in contact with the crosslinkable material. --
- 73. A process according to claim 71, wherein the mould is not fully closed after the introduction of the material into the mould/cavity, so that at least a gap containing uncrosslinkable material remains open, the gap being in communication with the mould cavity, and wherein the crosslinking energy is restricted from the material disposed in the gap by means of a mask. --
- 74. A process of claim 73, wherein the mould is closed further following crosslinking shrinkage as crosslinkage of the material progresses. --

-- 75. A device of claim 40, wherein the means for causing the impingement of the energy comprises a mask provided on the mould, the mask being impermeable or of poor permeability to the energy causing the crosslinking. --

-- 76. A device of claim 43, wherein the UV-permeable material is quartz. --

-- 77. A device of claim 44, wherein the layer is a metal oxide layer. --

-- 78. A device of claim 77, wherein the layer is a chrome layer. --

*Sub B3* -- 79. A process for the manufacture of a crosslinked moldings, comprising the steps of:

(a) introducing a crosslinkable material into a cavity of a mold;

(b) causing crosslinking energy to be impinged on said mold in an amount sufficient to crosslink said material to a degree sufficient to form a molding capable of being released from said mold, said mold cavity substantially determining the shape of the molding to be produced; and

(c) restricting impingement of said crosslinking energy on said crosslinkable material to the shape-forming cavity of the mold;

wherein said mold is at least partially impermeable to said crosslinking energy and

wherein the edge contour of the molding is determined substantially by the spatial restriction of the energy impingement, thereby producing a molding substantially free from burrs or flashes. --

*Sub C1* -- 80. A process of claim 79, wherein said molding is an ophthalmic lens. --

-- 81. A process of claim 80, wherein said ophthalmic lens is a contact lens. --

### STATUS OF THE APPLICATION

The status of the application is as follows:

Restriction (item 1, pages 2-3) to one of the following inventions is required under 35 USC 121:

I. Claims 1-61, drawn to a method and device for the manufacture of moldings